



# **Workshop 4: Towards a Circular Economy for Electronics**

**23 October 2019  
World Resources Forum 2019**

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**Organised by UN Environment Programme  
Supported by NESREA and GEF**

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# Session 1 Welcome

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Ligia Noronha

Director, Economy Division  
UN Environment Programme

# Session 1 Welcome

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Professor Aliyu Jauro

Director General of National Environmental Standards  
and Regulations Enforcement Agency of Nigeria

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## Session 2

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Presentation of circular economy and their implementation at global level for the electronics sector

- Eloise Toni, GEF Task Manager, UN Environment Programme
- Elisa Tonda, Head of Consumption and Production Unit, UN Environment Programme



# Circular economy for the electronics sector in Nigeria

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Elisa Tonda, Head of Consumption and Production Unit, Economy Division, UN  
Environment Programme

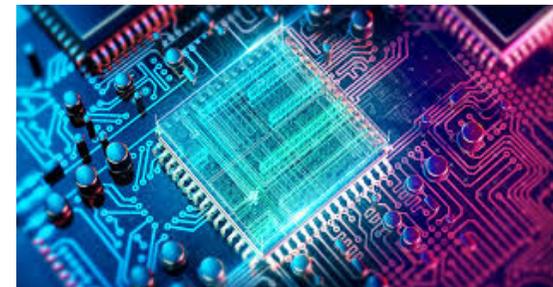
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# Circular economy work in UNEP

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Rethink the system where we keep products at the highest possible value and where we do not pollute our land, oceans, rivers, and air.

- Take into account the entire value chain
- Identify strategic intervention points
- Consider chemicals, and keep chemicals of concern away from the sector
- Involve all actors of the value chain
- Apply a life cycle approach



# Background

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- Over half a million tonnes of discarded appliances are processed in Nigeria every year. Up to 100,000 people work in the informal e-waste recycling sector in Nigeria.
- Weak regulatory control capacity over e-waste management regulations; legislation do exist to manage e-waste risks
- Cost of treatment of hazardous chemicals is not covered
- Lack of environmentally sound/ formal recycling



# GEF project: Circular Economy Approaches for the Electronics Sector in Nigeria

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- 2-year project (June 2019-June 2021), launched in Lagos, Nigeria in June 2019
- Led by the National Environmental Standards and Regulations Enforcement Agency (NESREA) in Nigeria and technically supported by UNEP
- The project is to bring together players from government, the private sector and civil society to kickstart a financially self-sustaining circular economy approach for electronics in Nigeria, protecting the environment while creating safe employment for thousands of Nigerians
- It is the first demonstration project in the electronics sector under the Platform for Accelerating the Circular Economy (PACE)



# GEF project: Circular Economy Approaches for the Electronics Sector in Nigeria

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4 components:

## **Component 1 Implementation of EPR system (led by NESREA)**

- Development of roadmap for the EPR implementation
- Development of the registration system regarding data sources, computation and management of information
- Estimation of levy for product categories
- Training of database owner/ maintainer

## **Component 2 Pilot of collection activities (led by NESREA)**

- Identification of optimal collection system
- Training of e-waste collectors on standards and best practices



# GEF project: Circular Economy Approaches for the Electronics Sector in Nigeria

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## Component 3 Pilot of recycling activities (led by NESREA)

- Assessment of recycling centres
- Training of e-waste workers

## Component 4 Circular Economy and global outreach (led by UNEP)

- Demonstration of best practices and success cases of upstream interventions to increase the circularity of the sector
- Training on eco-innovation and circular economy in Nigeria
- Organisation of high-level international event to engage with international stakeholders to implement circular economy in the electronics value chain



# What support do we expect from international stakeholders?

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- Exchange with governments on the implementation of EPR legislation in the electronics sector
- Raise awareness of international producers and relevant stakeholders to support the PRO system in Nigeria
- Engage with companies along the electronics value chain to design products which are more suitable for circularity
- Identify and share best practices and success cases to increase the circularity of the electronics value chain
- Bridge the project team with potential partners that could contribute to the project implementation
- Collaborate in capacity building, communication and events



**Thank you for your attention**

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# Session 3

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Presentation of implementing circular economy in the private sector

Adrian Clews  
Managing Director - Hinckley

# Session 4

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Panel discussion on how to achieve circular economy in the electronics sector, at regional and global levels

- David McGinty, Platform for Accelerating the Circular Economy (PACE)
- John A. Pwamang, Acting Executive Director, Environmental Protection Agency, Ghana
- Mathias Schluep, World Resources Forum
- Daniel Hinchliffe, GIZ
- Christina Meskers, Umicore
- Pascal Leroy, WEEE Forum

# Session 5 Summary and conclusions

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